Minutes of the Meeting

VASAVI COLLEGE OF ENGINEERING
(Autonomous)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 10.8.2021

Minutes of the 12th meeting of Board of Studies in Electronics and Communication Engineering held on 09.08.2021 (Monday) in **ONLINE mode** at 2.00 p.m.

Members Present:

1.	Dr. E. Sreenivasa Rao, Prof. & Head	:	Chairman, BoS
2.	Dr. L. Nirmala Devi, Associate Professor, Osmania University, Hyderabad	:	Osmania University Nominee & Member
3.	Dr. N. Bheema Rao Professor, ECE Department, NIT – Warangal (Subject Expert)	:	Member
4.	Dr. Sumohana S. Channappayya Associate Professor, IIT – Hyderabad (Subject Expert)	:	Member
5.	Dr. D. Ranganadham Deputy Director General, Doordarshan Kendra, Vijayawada (Industry Representative)	:	Member
6.	Sri. Venkateswara Rao Somarouthu, Director, AMD Hyderabad. (Industry Representative)	:	Member
7.	Dr. Veeresh Babu Vulligaddala Manager - Analog Design, AMS Semiconductors India Pvt. Ltd., Hyderabad. (Industry Representative)	:	Member
8.	Sri. T. Srisailam Application Engineer, Keysight Technologies, Hyderabad. (Alumnus)	:	Member
9.	Sri. Thati Rahul Senior Systems Design Engineer, Xilinx India Technologies Pvt. Ltd., Hyderabad. (Alumnus)	:	Member
10.	Prof. K. Veera Swamy, Professor, Dept of ECE, VCE.	:	Member
11.	Prof. N.S. Murthy, Professor, Dept of ECE, VCE.	:	Member
12.	Prof. K. Deergha Rao, Professor, Dept of ECE, VCE.	:	Member
13.	Ms. G.R. Padmini, Associate Professor, Dept of ECE, VCE.	:	Member

14.	Dr. N.S.S. Reddy, Associate Professor, Dept of ECE, VCE.	:	Member
15.	Mrs. A. Srilakshmi, Associate Professor, Dept of ECE, VCE.	:	Member
16.	Dr. D.M.K. Chaitanya, Associate Professor, Dept of ECE, VCE.	:	Member
17.	Mr. M. Prashanth, Assistant Professor, Dept of ECE, VCE.	:	Member
18.	Ms. R. Leelavathi, Assistant Professor, Dept of ECE, VCE.	:	Member
19.	Mrs. V. Aruna, Assistant Professor, Dept of ECE, VCE.	:	Member
20.	Mrs. S. Aruna Deepthi, Assistant Professor, Dept of ECE, VCE.	:	Member
21.	Mrs. S. Afroz Begum, Assistant Professor, Dept of ECE, VCE.	:	Member
22.	Mr. V. Krishna Mohan, Assistant Professor, Dept of ECE, VCE.	:	Member
23.	Mrs. Vibha D.K, Assistant Professor, Dept of ECE, VCE.	:	Member
24.	Mrs. Ch. Neethu, Assistant Professor, Dept of ECE, VCE.	:	Member
25.	Mrs. K. Deepti, Assistant Professor, Dept of ECE, VCE.	:	Member
26.	Mr. N. Abid Ali Khan, Assistant Professor, Dept of ECE, VCE.	:	Member
27.	Mr. R. Goutham, Assistant Professor, Dept of ECE, VCE.	:	Member
28.	Mrs. K.R. Deepthi, Assistant Professor, Dept of ECE, VCE.	:	Member
29.	Mr. K. Rama Krishna Reddy, Assistant Professor, Dept of ECE, VCE.	:	Member
30.	Mr. M. Ramanjaneyulu, Assistant Professor, Dept of ECE, VCE.	:	Member
31.	Mr. B. Uma Mahesh Babu, Assistant Professor, Dept of ECE, VCE.	:	Member

The following members of Board of Studies could not attend the meeting.

1. Sri. J. Sunil, CEO, Vaaluka Solutions Pvt. Ltd., Hyderabad.

Dr. E. Sreenivasa Rao, Chairman BoS presided over the meeting. The following items were taken up for discussion and consideration.

1. Welcoming the members.

Chairman welcomed all the members to the 12 BoS meeting.

2. Confirmation of the minutes of 11th BoS meeting held on 29.7.2020.

The minutes of the 11th meeting of the Board of Studies held on 29.7.2020 were read and confirmed.

3. Action taken report on the resolutions of the 11th BoS meeting held on 29.07.2020

The action taken report was reviewed by the members which is as follows:

Suggestion	Action Taken
Dr. Nirmala Devi and Prof. N. Bheema Rao Suggested to change the name of Sensors and Systems Lab as Control Systems Engineering Lab, to make it in line with the corresponding theory course.	As per the BoS suggestion, the name of the Sensors and Systems Lab is changed as Control Systems Engineering Lab in VI semester of R-20.
Prof. Bheem Rao Suggested that it is better to introduce	▪ After deliberations in academic committee meetings and based on the suggestions in BoS, Data Structures theory and Data structures

Data Structures course for ECE students as it is very important course from the point of placement opportunities and higher studies.	laboratory courses are introduced in IV-Semester of R-21.
Dr. D. Ranganadham Suggested to sequence the NATL and EM Theory courses in R-20 regulation in III & IV semester respectively.	▪ Based on the suggestions in the BoS, NATL and EM Theory courses are sequenced in III & IV semester respectively in R-20.
Mr. J. Sunil Suggested to include object oriented programming concepts for lateral entry students which are important from industry perspective are to be included in bridge course at III-semester for lateral entry students.	▪ Based on the suggestions in BoS, the existing syllabus of programming techniques for problem solving bridge course is revised and object oriented programming concepts are introduced in V^{th} Unit in R-20.
Mr. T. Srisailam Suggested to give exposure to the technical staff on latest industry grade test and measurement equipment.	▪ Based on the suggestion, two training programmes have been conducted for the technical staff during 1^{st} to 3^{rd} July 2021 on Vector signal generator and 22^{nd} to 24^{th} July 2021 on Vector network analyzer.
Mr. T. Rahul Suggested to introduce the topic of PCI express bus interface and protocols in embedded systems course as most of the embedded systems related industries are working on this topic.	▪ Based on the BoS suggestions, PCI express bus interface and protocols topic is introduced in advanced embedded system professional elective-II course in R-20.

The chairman BoS, has informed the members that the department has implemented the above suggestions given by the members.

4. Review and approval of Department Vision & Mission, PEO's, PSO's, PO's and stake holders feedback formats.

Department Vision & Mission, PEO's, PSO's, PO's and stake holders feedback formats, has been presented by the Chairman are given below.

Department Vision
Striving for excellence in teaching, training and research in the areas of Electronics and Communication Engineering and fostering ethical values
Department Mission
To inculcate a spirit of scientific temper and analytical thinking and train the students in contemporary technologies in Electronics and Communication Engineering to meet the needs of the industry and society with ethical values

UG Program : B.E (ECE)	
Program Educational Objectives (PEO's)	
PEO1:	Graduates will be able to identify, analyze and solve engineering problems.
PEO2:	Graduates will be able to succeed in their careers, higher education, and research.
PEO3:	Graduates will be able to excel individually and in multidisciplinary teams to solve industry and societal problems.
PEO4:	Graduates will be able to exhibit leadership qualities and lifelong learning skills with ethical values.
Program Specific Outcomes (PSO's)	
PSO1:	ECE students will be able to analyze and offer circuit and system level solutions for complex electronics engineering problems, keeping in mind the latest technological trends.
PSO2:	ECE students will be able to apply the acquired knowledge and skills in modeling and simulation of wireless communication systems.
PSO3:	ECE students will be able to implement signal and image processing techniques for real time applications.

B.E. (ECE) PROGRAM OUTCOMES (PO's)	
PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	Design / development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Lifelong learning: Recognize the need, and for have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

The BoS has resolved to approve the Department Vision & Mission, PEO's, PSO's, PO's and stake holders feedback formats.

5. Note on the department achievements.

Chairman presented the achievements of the department for the academic year 2020-21.

Review and approval of the following for B.E (ECE), M.E (ES&VLSI Design) & (CE&SP) programmes for the academic year 2021-22.

6. a. Scheme of instruction & examination for B.E – I to VIII Semesters (R-21).
b. Scheme of instruction & examination for B.E ECE Honours Degree Program in System on Chip Design.
c. Syllabi for I and II semester courses (R-21).

7. Scheme of instruction & examination and syllabi for B.E – III & IV Semesters (R-20).

8. Scheme of instruction & examination and syllabi for B.E – V & VI Semesters (R-19).

9. Scheme of instruction & examination and syllabi for B.E – VII & VIII Semesters (R-18).

10. Scheme of instruction & examination and syllabi for M.E (ES&VLSID) I to IV Semesters (R-21).

11. Scheme of instruction & examination and syllabi for M.E (CE&SP) I to IV Semesters (R-21).

12. a. Open Electives to be offered to B.E. - III & V Semesters students for the academic year 2021-22.
b. Professional Electives to be offered to B.E. - VII & VIII Semesters students for the academic year 2021-22.
c. Open Electives to be offered to M.E. - III Semester students for the academic year 2021-22.
d. Professional Electives to be offered to M.E. - I to III Semesters students for the academic year 2021-22.

The above schemes of Instruction & examination for B.E. (ECE), M.E. (ES&VLSI Design) & (CE&SP) programmes were presented by the BoS Chairman and the members offered the following suggestions.

Name of the BoS member(s)	Suggestions offered
Dr. L. Nirmala Devi, Professor, ECED, OU-Hyd.	1. Title of Basics of Electronic Communication (U210E320EC) may be changed as Principles of Communication Engineering. 2. Mathematical Programming for Engineers title may be relooked into. 3. Check the title of AI & Neural Networks course. 4. For Modelling and Design of Antennas Theory-cum-Laboratory Course, check whether prerequisites are met are not.
Dr. L. Nirmala Devi, Professor, ECED, OU-Hyd. Dr. N. Bheema Rao, Professor, ECED, NIT-W.	1. Skill Development Courses can be named with specific name of the course instead of specifying skill development every time and giving the nomenclature Aptitude-I, Aptitude-II, Technical Skills-I, Technical Skills-II, Communication Skills-I, Communication Skills-II. 2. Electromagnetic Field Theory is more appropriate title than EM theory. 3. R-21 proposed course structure and curriculum is good.
Sri. T. Srisailam, Application Engineer, Keysight Technologies, Hyderabad.	• Suggested to explore the possibility of offering industry certification courses on IoT, RF & Microwave engineering topics offered by Agilent / Keysight Technologies, as these courses are very useful and strengthens the CVs of the students and help in pursuing higher studies.

1. Dr. Sumohana S. Channappayya Associate Professor, Department of Electrical Engineering, IIT Hyderabad. 2. Dr. N. Bheema Rao, Professor, ECED, NIT-W. 3. Dr. D. Ranganadham, Deputy Director General (Engineering), Doordarshan Kendra Hyderabad.	1. These board members requested the Chairman to share the PPT slides presented by him and informed that they will go through the slides once again and will communicate the suggestion if any to the chairman. 2. R-21 proposed course structure and curriculum is good.

After review, the BoS approved the proposed schemes & syllabi for B.E. (ECE), M.E. (ES&VLSI Design) & (CE&SP) programmes for the academic year 2021-22.

13. Any other item with the permission of the chair.

- It has been resolved that chairman will be signing all the schemes of instruction and syllabi of UG & PG programmes in ECE, discussed in the meeting, indicating the approval of BoS.

The meeting concluded with a vote of thanks to the Chair.

E. Sreenivasa Rao

(Dr. E. SREENIVASA RAO)
Chairman, BoS - E.C.E

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